

KIR'YANOVA, V.V.

USSR/General and Special Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30599

Author : Kir'yanova, V.V.

Inst : Voronezh Agricultural Institute

Title : To the Problem of Protection of Useful Insects from Poisoning.

Orig Pub : Zap. Voronezhsk.s.-kh. in-ta, 1956, 26, No 2, 147-150.

Abstract : Honey-bearing plants were treated with carbolic acid, pyridine and wastes of synthetic rubber of strong odor in order to keep off domestic bees. Saucers with the same substances were placed in special breeding places in the vicinity of the beehive, to which the bees were first attracted with food. The bees quickly became accustomed to the most repellent odors; if they left the honey bearing plants that were treated they soon returned to them.

Card 1/2

USSR/General and Special Zoology - Insects.

P.

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REF ID: A66502

In order to preserve the life of the melliturgy and of other wild bees it was necessary to carry on the treatment with some insecticides (chlortane, mercaptophos and others) late in the evening, so that the poisons would dry up before morning. Other insecticides, especially in smaller concentrations, quickly lost their toxicity under the influence of the sun, in following ways: a 0.1% HCCH emulsion -- in 2 hours; 0.2-0.3% HCCH emulsions and 0.2-0.3% DDT emulsions - in 2 days; a 0.5% DDT suspension -- in seven days; vophatox -- in one day (the concentrations of insecticides referred to the active substance). It was necessary to correlate the measures on bees' isolation with the activities of the organisation for the control of agricultural pests.

Card 2/2

S/137/62/000/005/102/150  
A006/A101

AUTHORS: Markova, N. Ye., Kir'yanova, V. M.

TITLE: Investigating the mechanical properties of cold-rolled aluminum plates

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 71, abstract 51430 ("Tr. Voronezhsk. un-ta", 1961, v. 55, 79 - 86)

TEXT: A study was made of changes in the mechanical properties of cold-rolled "A1" grade Al-plates at various reduction degrees (from 20 to 88% initial thickness) by taking into account the effect of a surface-active medium upon the specimens. On the basis of bending deformation of small plane specimens a method was developed of determining  $E$ ,  $\sigma_e$  and  $\sigma_s$ , and of revealing first symptoms of plastic deformation and their propagation into the depth of the specimen. The active effect of an aerosol solution ("OT" with a concentration of 0.112 mole/liter) is shown which facilitates deformation due to the penetration of adsorption layers into the specimen depth. ✓

T. Romyantseva

[Abstracter's note: Complete translation]

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Relating to Their Further Investigation and Control"

(from Reports of the All-Union Conference on Nematode Study, published by All-Union  
Plant Protection Institute (VIZR), VASKHNIL, no 5-10, 1956

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Kir'yanova, E. S. and Gurvich, G. A. "The Fauna of Nematodes of Orenburg Steppe Near the Village of Saverovka with Prognosis of its Potential Influence on the Yield in Case of Cultivation," Itogi Nauchno-Issledovatel'skikh Rabot Vsesoiuznogo Instituta Zashchity Rastenii za 1935 Goda, 1936, pp. 85-88. 423.92 L54I

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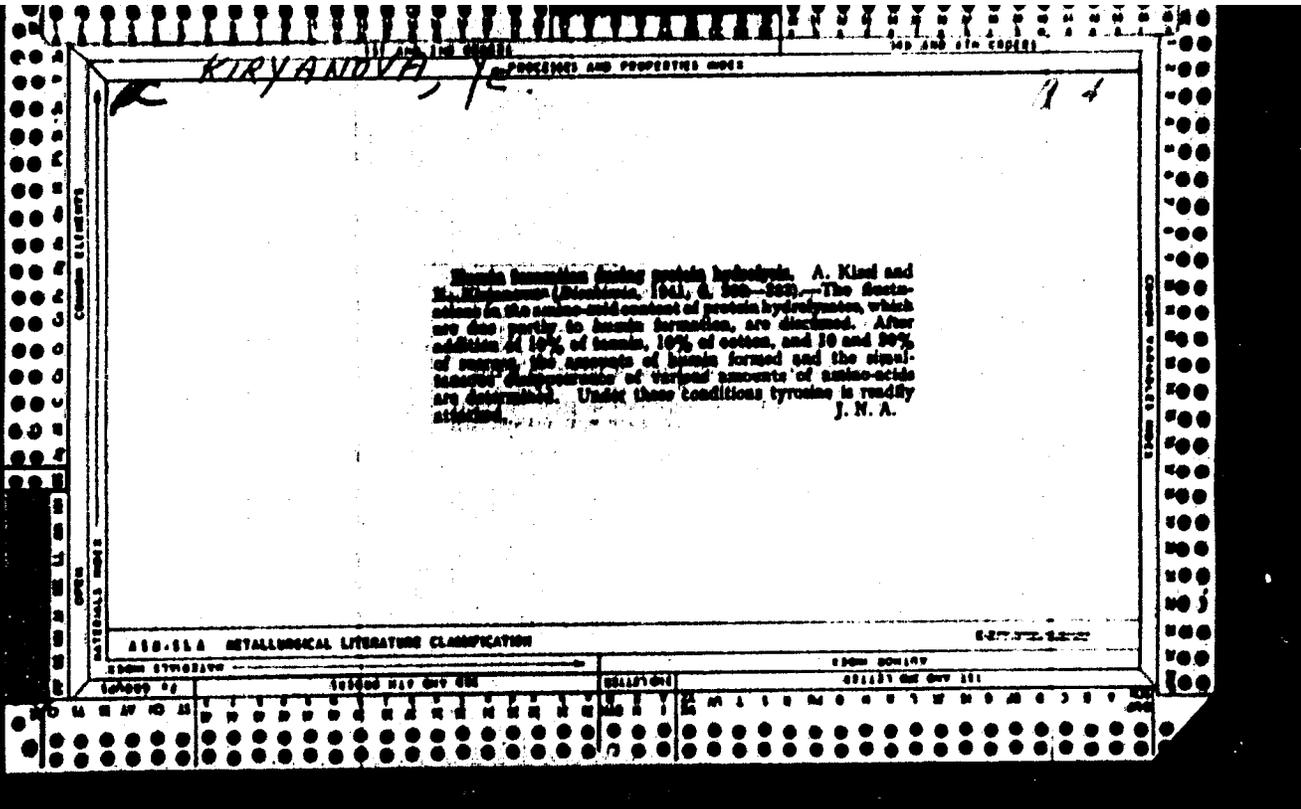
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GUTSEVICH, A. V.; KIRICHENKO, A. N.; KIR'YANOVA, Ye. S.; KOZHANCHIKOV, I. V.;  
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1. Akademiya nauk Gruzinskoy SSSR, Institut zoologii, Tbilisi.  
Predstavleno deystvitel'nym chlenom Akademii F.A.Zaytsevym.  
(Georgia--Nematomorpha) (Nematomorpha--Georgia)

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Results and prospects in the development of phytonematology  
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1. Zoologicheskii institut Akademii nauk SSSR.  
(Nematoda) (Plant diseases)

11

KIR'YANOVA, Ye.S.; LINNIK, G.N.; BASOVA, A.I.; TERESHCHENKO, Ye.F.;  
~~POGOSYAN, N.Ye.~~ POGOSYAN, N.Ye.

Appendix 2: Recommendations for combating the potato tuber  
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1. Zoologicheskii institut Akademii nauk SSSR, Khar'kovskiy  
sel'skokhoyaystvennyy institut im. V.V.Dokuchayeva, Kiyevskaya  
sel'skokhoyaystvennaya opytnaya stantsiya, Ukrainskiy nauchno-  
issledovatel'skiy institut ovoshchevodstva, Zoologicheskii  
institut Akademii nauk Arnyanskoy SSR.  
(Nematoda) (Potatoes--Diseases and pests)

KIR'YANOVA, Ye.S.; GERASIMOV, B.A.; MERZHEVSKAYA, O.I.; POGOSYAN, N.Ye.

Appendix 3: Recommendation for combating the onion bulb eelworm  
(*Ditylenchus allii* (Beijerinck, 1883)). Trudy probl. i tem.so-  
veshch. no.3:255-257 '54. (MIRA 8:5)

1. Zoologicheskii institut Akademii nauk SSSR, Nauchno-issle-  
dovatel'skii institut ovoshhnogo khozyaystva, Institut biologii  
Akademii nauk Belorusskoy SSR, Zoologicheskii institut Akademii  
nauk Armyanskoy SSR.  
(Nematoda) (Onions--Diseases and pests)

LOMAKINA, Z.V.; KIR'YANOVA, Ye.S.; VLASOVA, M.Ya.

~~SECRET~~  
Appendix 4: Recommendations for combating the chrysanthemum  
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(Chrysanthemums--Diseases and pests) (Nematoda)

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V.A.; D'YAKONOV, A.M.; ZHINA, G.B.; IVANOV, A.V.; KIR'YANOVA,  
Ye.S.; KOPYAKOVA, Z.I.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.;  
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YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel';  
PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor;  
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(Parasites--Weevils) (Nematoda)

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37 no.3:359-372 Nr '58. (MIRA 11:4)

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1. Zoologicheskly institut AN SSSR, Leningrad.

SOV/65-58-11-15/15

AUTHOR: Kir'yanova, Ye. V.

TITLE: ~~The Petrochemical Industry~~ in Some "Capitalist"  
Countries (Neftekhimicheskaya promyshlennost'  
nekotorykh kapitalisticheskikh stran)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr. 11,  
pp 69 - 72 (USSR)

ABSTRACT: Production and output figures and developments of  
the petrochemical industry in the USA, Great Britain,  
France, Italy and Japan since 1950 are reviewed.  
There are 5 English References.

ASSOCIATION: Vsesoyuznyy institut nauchnoy i tekhnicheskoy infor-  
matsii (All-Union Institute of Scientific and Technological  
Information)

Card 1/1

USCOMM-DC-61011

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KIR'YANOVA, Z.V., red.; MATVEIEV, P.V., red.; MOTORIN, A.I., red.;  
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BOGOYAVLENSKIY, G.P.; SHSHKIN, I.B.; GALITSKIY, V.A.; BELEN'KIY, A.B., kand.ist. nauk, nauchn. red.; GRIN, M.F., kand. ekon. nauk, nauchn. red.; ZABELIN, I.M., kand. geogr. nauk, nauchn. red.; LAPPO, G.M., kand. geogr. nauk, nauchn. red.; SAMSONENKO, L.V., red.; FRADKIN, N.G., kand. geogr. nauk, nauchn. red.; KIR'YANOVA, Z.V., mlad. red.

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[Captain of the Navy Golovnin's voyage around the world on  
the sloop of war "Kamchatka" in 1817, 1818 and 1819] Pute-  
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BAKHRAKH, L.E.; DENISOV, Yu.I.; KIR'YASHKIN, S.I.

Certain special features of ionic focusing of electron beams.  
Radiotekh. i elektron 7 no.7:1169-1174 '62. (MIRA 15:6)  
(Electron beams) (Electronics)

KIR'ASHKIN, V.I.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1994  
 AUTHOR KIR'JASKINA, Z.I., POPOV, F.M., BILENKO, D.I., KIR'ASKIN, V.I.  
 TITLE The Investigation of the Dielectricity Constant of Semiconductors.  
 PERIODICAL Zhurn.techn.fis.27, fasc.1, 85-89 (1957)  
 Issued: 2 / 1957

In the laboratory of the University of Saratov various methods were employed for measuring the dielectricity constant of semiconductors. The present work deals with the results of part of these investigations.

Measuring the dielectricity constant of semiconductors in the centimeter range:

By the method of free waves the dielectricity constants of the following semiconductors were measured:  $WO_3$ ,  $PbO$ ,  $CuO$ ,  $SnO_2$ ,  $Ni_2O_3$ ,  $Co_2O_3$ ,  $ZnO$ ,  $V_2O_5$ ,  $Cu_2O$ ,

$Na_2WO_4$ . The method of free waves consists in watching the interference image in the space between the radiation source (with monochromatic radiation) and the sample under investigation. As a source of undamped electromagnetic oscillations a magnetron generator was used which furnishes oscillations with the wavelength 5 cm. The conditions for the production of samples exercise essential influence on their density and also upon their dielectricity constant. With increasing pressure the density of the samples and also that of the dielectricity constant increase. Therefore the value of the dielectricity constant found on the samples which were pressed from semiconductor powder can hardly be considered as a value that characterizes the properties of the given material. Following a suggestion made by A.F.IOFFE the notion "specific dielectricity constant" was introduced:  $\epsilon_{sp} = \epsilon/q$ . Here  $\epsilon$  and  $q$  denote the

Zurn.techn.fis.27, fasc.1, 85-89 (1957)

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dielectricity constant and the density of the sample respectively. The values of the specific dielectricity constant which are given in a table indicate that for  $WO_3$ ,  $PbO$ ,  $Ni_2O_3$  and  $CuO$  this specific dielectricity constant  $\epsilon_{sp}$  is constant and that in the case of samples pressed out of semiconductor powders the value of the specific dielectricity constant is a more exact characteristic of the semiconductor than the dielectricity constant. For measuring the dielectricity constant of semiconductors with a specific resistance of less than  $10^3$  ohm.cm the method of free waves is unsuited. It is, however, possible by another method to determine the dielectricity constant of well-conducting semiconductors on samples produced from a mixture of the powder of the semiconductor under investigation and of a dielectricum (e.g. paraffin). By means of this method D.I.BILENKO determined the dielectricity constant of  $ZnS$ ,  $CdS$ ,  $ZnTe$ ,  $HgS$ ,  $HgSe$  and also of  $SnSb$  at frequencies of from  $10^4 - 10^6$  c with the resonance method; results are shown in a table. In the cases investigated on this occasion the dielectricity constant increases on the occasion of transition from an ion-homoeopolar binding to a homoeopolar-metallic binding.

INSTITUTION: University SARATOV

YEREMIN, Ye. N.; AL'TSHULER, M. Z.; KIR'YASHKINA, Z. I.; IGHIN, V. V.

Acetylene

Formation of acetylene in the electrocracking of methane. Part 1. Static experiments.  
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APPROVED FOR RELEASE: 06/13/2000

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KIR'YASHKINA, Z.I.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1994  
AUTHOR KIR'YASHKINA, Z.I., POPOV, F.M., BILENKO, D.I., KIR'ASKIN, V.I.  
TITLE The Investigation of the Dielectricity Constant of Semiconductors.  
PERIODICAL Zhurn.techn.fis.27, fasc.1, 85-89 (1957)  
Issued: 2 / 1957

In the laboratory of the University of Saratov various methods were employed for measuring the dielectricity constant of semiconductors. The present work deals with the results of part of these investigations.

Measuring the dielectricity constant of semiconductors in the centimeter range:

By the method of free waves the dielectricity constants of the following semiconductors were measured:  $WO_3$ ,  $PbO$ ,  $CuO$ ,  $SnO_2$ ,  $Ni_2O_3$ ,  $Co_2O_3$ ,  $ZnO$ ,  $V_2O_5$ ,  $Cu_2O$ ,

$Na_2WO_4$ . The method of free waves consists in watching the interference image in the space between the radiation source (with monochromatic radiation) and the sample under investigation. As a source of undamped electromagnetic oscillations a magnetron generator was used which furnishes oscillations with the wavelength 5 cm. The conditions for the production of samples exercise essential influence on their density and also upon their dielectricity constant. With increasing pressure the density of the samples and also that of the dielectricity constant increase. Therefore the value of the dielectricity constant found on the samples which were pressed from semiconductor powder can hardly be considered as a value that characterizes the properties of the given material. Following a suggestion made by A.F.IOFFE the notion "specific dielectricity constant" was introduced:  $\epsilon_{sp} = \epsilon/q$ . Here  $\epsilon$  and  $q$  denote the

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S/576/61/000/000/012/020

E073/E535

AUTHORS: Kir'yashkina, Z. I., Nosova, V. A. and Luchanskaya, N. M.

TITLE: Temperature dependence of the electric conductivity of CdS films

SOURCE: Soveshchaniye po poluprovodnikovym materialam, 4th Voprosy metallurgii i fiziki poluprovodnikov, poluprovodnye kovyie soyedineniya i tverdye splavy Trudy Soveshchaniya, Moscow, Izd-vo AN SSSR 1961 Akademiya nauk SSSR, Institut metallurgii imeni A. A. Baykova, Fiziko-tehnicheskii institut, 95-99

TEXT: The influence of heat treatment in various gaseous media on the conductivity of CdS films and the nature of changes in conductivity with temperature were studied. The films were produced by evaporating CdS powder in a vacuum of  $10^{-4}$  mm Hg on a  $15 \times 15 \text{ mm}^2$  glass base, onto which platinum electrodes were deposited prior to depositing the CdS films. The distance between the electrodes equalled 5 mm, the thickness of the films was 0.6 to 0.8  $\mu$ . The temperature dependence of the electric conductivity was measured for freshly produced films without any additional

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treatment and also for films additional heat-treated at 300, 400, 460 and 500°C in air, oxygen, nitrogen and hydrogen. The electrical conductivity was measured in the temperature range 20 to 500°C. Films not heat-treated showed a relatively large conductivity at room temperature (of the order of  $10^{-3} \text{ ohm}^{-1} \text{ cm}^{-1}$ ) and a relatively complicated characteristic of the temperature dependence of the electric conductivity. On raising the temperature to 100-110°C the electric conductivity of these increased, reaching  $0.12 \text{ ohm}^{-1} \text{ cm}^{-1}$ . On raising the temperature still further to 160-170°C, the electric conductivity remained constant but above these temperatures a further increase in the electrical conductivity was observed for some of the specimens whilst for others there was a decrease. Typical  $\lg \sigma$  vs  $1/T$  curves obtained for (d) films after heat-treatment in air, nitrogen, hydrogen and oxygen at 300, 400, 460 and 500°C indicate that films heat-treated at 300°C in air, nitrogen and hydrogen showed an increase in the electric conductivity at room temperature and a change in the curve expressing the temperature dependence of the electrical conductivity. Heat-treatment in oxygen at 300°C leads to

Temperature dependence of the ... <sup>30955</sup> 4/26/61/000/000/012/020  
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a sharp drop in the electrical conductivity and also to a change in the temperature dependence of the electrical conductivity. All films heat-treated at 400°C, regardless of the medium, showed a decrease in the electrical conductivity (to below  $10^{-9}$  ohm<sup>-1</sup> cm<sup>-1</sup> at room temperature) and the change in the conductivity with temperature is a typical semiconductor one. Heat-treatment at 400 and 500°C in air, nitrogen, hydrogen and oxygen produced hardly any further change in the magnitude and temperature dependence of the electric conductivity. The results have shown that for heat-treatment temperatures of 400°C and higher, the medium in which the heat-treatment is carried out has no longer any influence on the temperature dependence of the electric conductivity and, therefore, it can be assumed that the change in the properties of the films is connected with their structure. X-ray diffraction patterns of films treated in various media at the same temperature showed that they were absolutely identical. Heating at 400°C and above leads to a considerable ordering of the structure. It is possible that the ratio of the cubic and the hexagonal modifications in the films and the changes in this ratio during heat-treatment play an important role. S. A. Semiletov  
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Temperature dependence of the ... <sup>30955</sup>  
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established by electron diffraction investigations that both modifications are present in the specimens studied. Heat-treatment of the layers brought about an increase in the quantity of the hexagonal modification. To confirm this assumption, electron diffraction investigations of the structure of these films would be required. There are 3 figures and 18 references: 3 Soviet and 15 non-Soviet. The English-language references read as follows: ✓  
Ref.2: D. C. Reynolds, H.C. Greene, L. L. Antes J.Chem.Phys., 1956, 25, 6; Ref.7: S. M. Thomsen, R.H. Gubbe, Rev.Sci.Instr., 1955, 26,7; Ref.8: F.H.Nicoll, B. Kazan J.Opt.Soc.Am 1955, 45 8  
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[Abstractor's Note: Abridged translation]

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